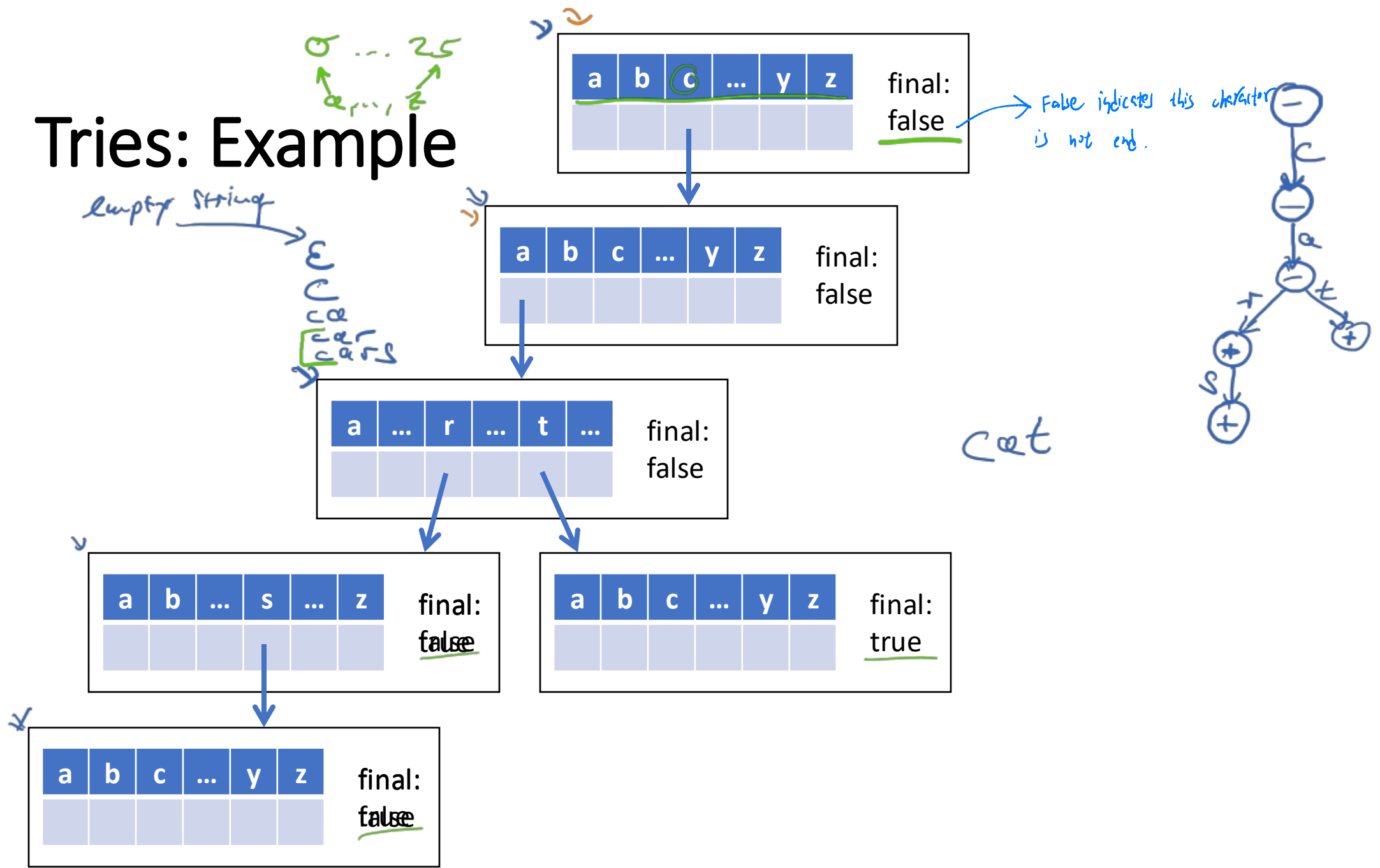


# Tries



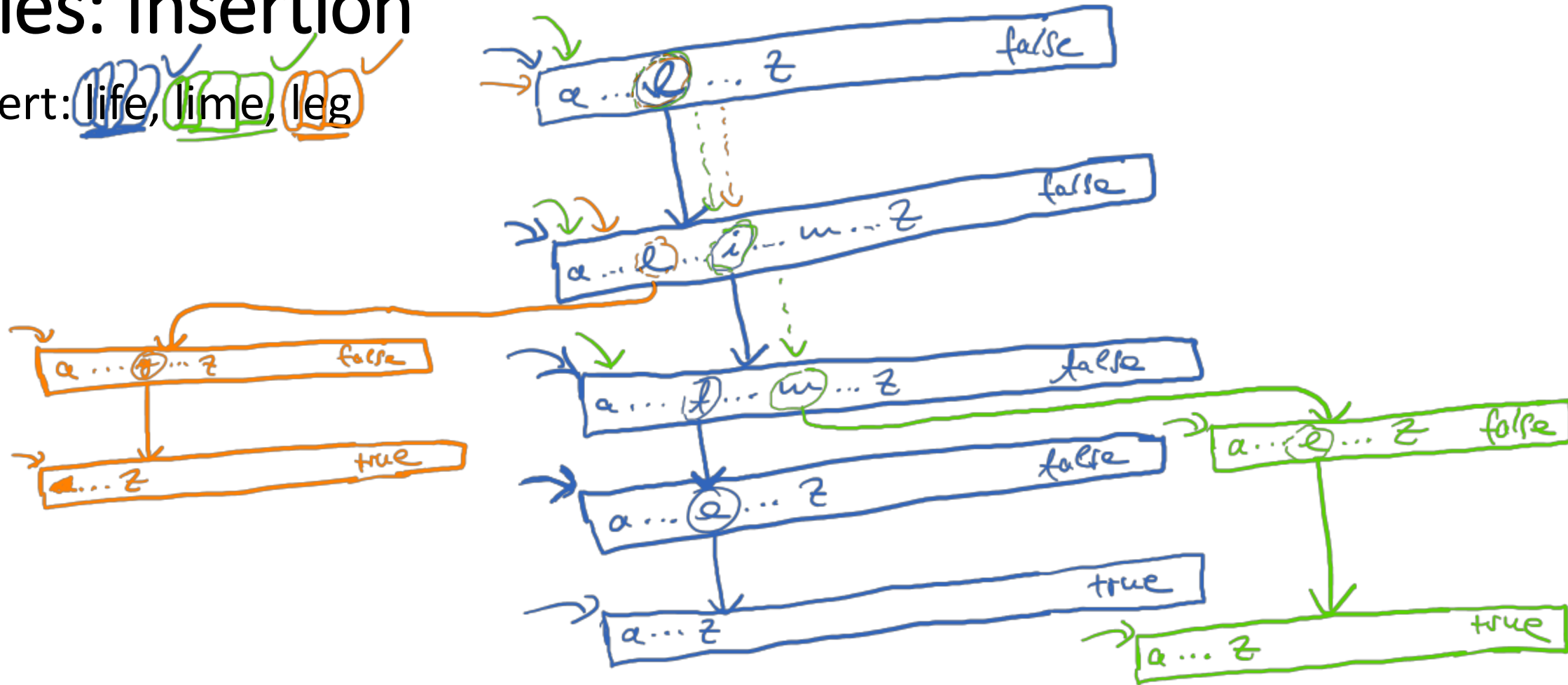
★ store and search strings efficiently

# Tries: Example



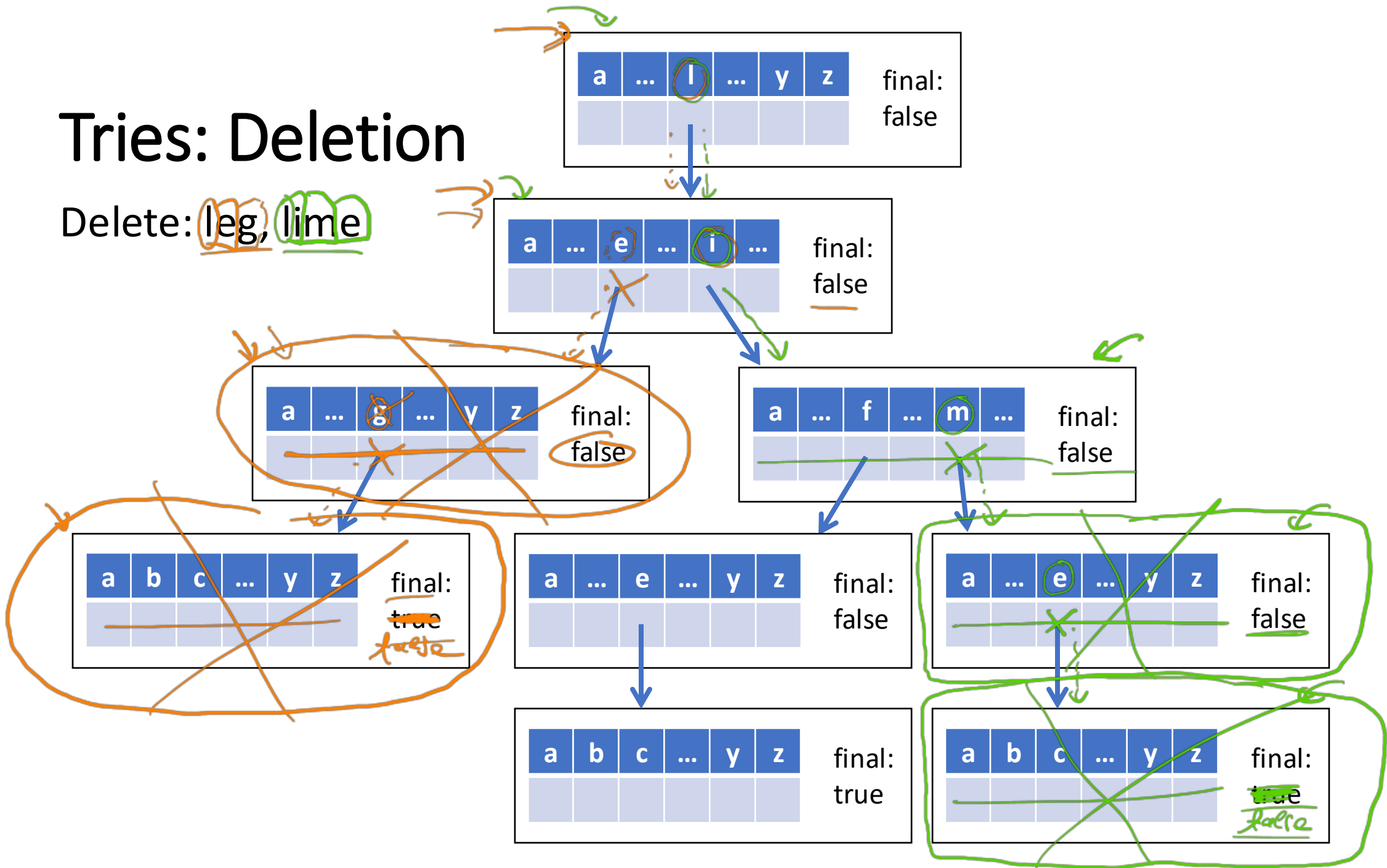
# Tries: Insertion

Insert: life, lime, leg



# Tries: Deletion

Delete: leg, lime



# Complexities

• lookup:  $O(L + 1)$

• insert:  $O(L + 1)$

• delete:  $O(2 \cdot (L + 1))$

N: # Strings in trie

L: length of string (#chars)